# Performance Data Sheet

## RNA5518YNA

## General Information

| | | | |
|---|---|---|---|
| **Model** | RNA5518YNA | **Refrigerant** | R-134a |
| **Test Condition** | ARI | **Performance Test Voltage** | 230V ~ 60HZ |
| **Return Gas** | 18.3°C (65°F) RETURN GAS | **Motor Type** | PSC |

## Performance Information

| Evap Temp (°F) | | Condensing Temperature (°F) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 80 | 90 | 100 | 110 | 120 | 130 | 140 |
| -15 | Btu/h | 5510 | 5350 | | | | | |
| | Watts | 865 | 905 | | | | | |
| | Amps | 3.73 | 4.04 | | | | | |
| | Lb/h | 69.6 | 71.3 | | | | | |
| -10 | Btu/h | 6240 | 6020 | 5840 | | | | |
| | Watts | 887 | 941 | 975 | | | | |
| | Amps | 3.91 | 4.23 | 4.50 | | | | |
| | Lb/h | 79.5 | 80.7 | 82.6 | | | | |
| -5 | Btu/h | 7070 | 6790 | 6540 | 6320 | | | |
| | Watts | 907 | 974 | 1020 | 1050 | | | |
| | Amps | 4.06 | 4.40 | 4.69 | 4.95 | | | |
| | Lb/h | 90.6 | 91.2 | 92.4 | 94.3 | | | |
| 0 | Btu/h | 8010 | 7660 | 7340 | 7040 | 6780 | | |
| | Watts | 923 | 1000 | 1060 | 1110 | 1140 | | |
| | Amps | 4.19 | 4.55 | 4.87 | 5.15 | 5.40 | | |
| | Lb/h | 103 | 103 | 104 | 105 | 107 | | |
| 5 | Btu/h | 9070 | 8650 | 8240 | 7860 | 7510 | | |
| | Watts | 936 | 1030 | 1100 | 1160 | 1210 | | |
| | Amps | 4.30 | 4.67 | 5.01 | 5.33 | 5.62 | | |
| | Lb/h | 117 | 116 | 116 | 117 | 118 | | |
| 10 | Btu/h | 10300 | 9750 | 9260 | 8790 | 8340 | 7930 | 7550 |
| | Watts | 947 | 1050 | 1130 | 1210 | 1270 | 1330 | 1370 |
| | Amps | 4.39 | 4.78 | 5.14 | 5.49 | 5.81 | 6.13 | 6.43 |
| | Lb/h | 132 | 132 | 131 | 131 | 131 | 132 | 133 |
| 15 | Btu/h | 11600 | 11000 | 10400 | 9840 | 9290 | 8770 | 8280 |
| | Watts | 956 | 1060 | 1160 | 1250 | 1330 | 1400 | 1460 |
| | Amps | 4.46 | 4.87 | 5.26 | 5.63 | 5.99 | 6.35 | 6.70 |
| | Lb/h | 150 | 148 | 148 | 147 | 147 | 147 | 147 |
| 20 | Btu/h | 13000 | 12400 | 11700 | 11000 | 10400 | 9730 | 9120 |
| | Watts | 964 | 1080 | 1190 | 1280 | 1370 | 1460 | 1540 |
| | Amps | 4.51 | 4.94 | 5.35 | 5.75 | 6.15 | 6.55 | 6.96 |
| | Lb/h | 169 | 167 | 166 | 165 | 164 | 164 | 163 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **25** | Btu/h | 14700 | 13900 | 13100 | 12300 | 11600 | 10800 | 10100 |
| | Watts | 970 | 1090 | 1210 | 1310 | 1420 | 1520 | 1610 |
| | Amps | 4.55 | 5.00 | 5.43 | 5.86 | 6.30 | 6.74 | 7.19 |
| | Lb/h | 190 | 189 | 187 | 185 | 184 | 183 | 182 |
| **30** | Btu/h | 16400 | 15600 | 14700 | 13800 | 12900 | 12000 | 11200 |
| | Watts | 976 | 1100 | 1220 | 1340 | 1450 | 1570 | 1680 |
| | Amps | 4.58 | 5.04 | 5.50 | 5.96 | 6.43 | 6.91 | 7.42 |
| | Lb/h | 214 | 212 | 210 | 208 | 207 | 205 | 203 |
| **35** | Btu/h | 18400 | 17400 | 16400 | 15400 | 14400 | 13400 | 12400 |
| | Watts | 981 | 1110 | 1240 | 1360 | 1490 | 1610 | 1730 |
| | Amps | 4.59 | 5.07 | 5.55 | 6.04 | 6.55 | 7.08 | 7.63 |
| | Lb/h | 241 | 238 | 236 | 234 | 232 | 229 | 227 |
| **40** | Btu/h | 20500 | 19400 | 18300 | 17200 | 16000 | 14900 | 13800 |
| | Watts | 985 | 1120 | 1250 | 1380 | 1510 | 1650 | 1780 |
| | Amps | 4.59 | 5.09 | 5.59 | 6.12 | 6.66 | 7.23 | 7.83 |
| | Lb/h | 269 | 267 | 265 | 262 | 260 | 257 | 254 |
| **45** | Btu/h | 22800 | 21600 | 20400 | 19100 | 17900 | 16600 | 15300 |
| | Watts | 990 | 1120 | 1260 | 1400 | 1540 | 1680 | 1830 |
| | Amps | 4.58 | 5.10 | 5.63 | 6.18 | 6.76 | 7.37 | 8.02 |
| | Lb/h | 301 | 299 | 296 | 294 | 291 | 288 | 284 |
| **50** | Btu/h | 25300 | 24000 | 22600 | 21300 | 19900 | 18400 | 17000 |
| | Watts | 995 | 1130 | 1270 | 1410 | 1550 | 1700 | 1860 |
| | Amps | 4.57 | 5.10 | 5.65 | 6.24 | 6.85 | 7.50 | 8.20 |
| | Lb/h | 336 | 334 | 331 | 328 | 325 | 322 | 318 |
| **55** | Btu/h | 28000 | 26600 | 25100 | 23600 | 22000 | 20500 | 18900 |
| | Watts | 1000 | 1140 | 1270 | 1420 | 1570 | 1730 | 1890 |
| | Amps | 4.55 | 5.10 | 5.67 | 6.28 | 6.93 | 7.63 | 8.38 |
| | Lb/h | 374 | 372 | 369 | 366 | 363 | 359 | 355 |

| COEFFICIENTS | CAPACITY | POWER | CURRENT | MASS FLOW |
|---|---|---|---|---|
| C1 | 1.081274E+04 | -4.466589E+02 | -7.533005E-01 | 1.256847E+02 |
| C2 | 2.708770E+02 | -1.501652E+00 | 4.102224E-02 | 2.836684E+00 |
| C3 | -2.652987E+01 | 2.658773E+01 | 9.118630E-02 | -5.568680E-01 |
| C4 | 3.173198E+00 | 1.332172E-01 | -4.100021E-04 | 2.114286E-02 |
| C5 | -4.220611E-01 | -9.808330E-02 | -7.216199E-04 | 3.909816E-03 |
| C6 | -1.986905E-01 | -1.327392E-01 | -4.372394E-04 | 3.603550E-03 |
| C7 | 1.154944E-02 | 4.658937E-04 | 1.946123E-06 | 2.254056E-04 |
| C8 | -1.034406E-02 | -2.327354E-03 | -1.077194E-07 | 1.047648E-04 |
| C9 | -5.851071E-03 | 1.919744E-03 | 6.308743E-06 | -8.259898E-05 |
| C10 | 1.163979E-03 | 1.792075E-04 | 8.723517E-07 | -2.376495E-06 |

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature